RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/576.388
Source:	IFWP
Date Processed by STIC:	5/1/06

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,388 TIME: 11:02:58

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\05012006\J576388.raw

```
3 <110> APPLICANT: THOMAS JEFFERSON UNIVERSITY
     4 UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION
     6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITING CHOLESTEROL
             UPTAKE
     9 <130> FILE REFERENCE: 003252-053291-PCT
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/576,388
C--> 12 <141> CURRENT FILING DATE: 2006-04-19
    14 <150> PRIOR APPLICATION NUMBER: 60/444,475
    15 <151> PRIOR FILING DATE: 2003-02-03
                                                                 ...
    17 <160> NUMBER OF SEC ID NOS: 13
    19 <170> SOFTWARE: PatentIn Ver. 3.2
    21 <210> SEQ ID NO: 1
    22 <211> LENGTH: 339
    23 <212> TYPE: PRT
    24 <213> ORGANISM: Homo sapiens
    26 <400> SEQUENCE: 1
    27 Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly Asp
    28 1
                         5
                                            10
    30 His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr Asn
                   20
                                       25
    33 Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys Thr
                                    40
    36 Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg Ser
    37 50
                                55
    39 Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr Lys
                            70
    42 Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu Glu
                       85
                                            90
     45 Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala Ser
    48 Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser Leu
    49 115
                                   120
    51 Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile Asn
                               135
    54 Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile Ile
                           150
                                              155
     57 Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala Lys
                       165
                                           170
    60 Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile Asp
                                      185
    61 180
    63 Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly Thr
                                   200
```

66 Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Val Pro His

RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,388 TIME: 11:02:58

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\05012006\J576388.raw

```
67
69 Leu Gln Lys Val Phe Asp Arg Tyr Lys Ser Tyr Ser Pro Tyr Asp Met
                     230
                                  235
72 Leu Glu Ser Ile Arg Lys Glu Val Lys Gly Asp Leu Glu Asn Ala Phe
                  245
                                     250
75 Leu Asn Leu Val Gln Cys Ile Gln Asn Lys Pro Leu Tyr Phe Ala Asp
                                265
76 260
78 Arg Leu Tyr Asp Ser Met Lys Gly Lys Gly Thr Arg Asp Lys Val Leu
79 275
                             280
81 Ile Arg Ile Met Val Ser Arg Ser Glu Val Asp Met Leu Lys Ile Arg
                          295
84 Ser Glu Phe Lys Arg Lys Val Gly Lys Ser Leu Tyr Tyr Tyr Ile Gln
                      310
                                          315
87 Gln Asp Thr Lys Gly Asp Tyr Gln Lys Ala Leu Leu Tyr Leu Cys Gly
88
                  325
                                      330
90 Gly Asp Asp
93 <210> SEQ ID NO: 2
94 <211> LENGTH: 337
95 <212> TYPE: PRT
96 <213> ORGANISM: Danio rerio
98 <400> SEQUENCE: 2
99 Met Ala Leu Val Ser Glu Tyr Leu Ser Lys Leu Thr Leu Ser Tyr Gly
102 Gly Glu Arg Glu Pro Lys Cys Pro Thr Val Val Ala Ala Tyr Asp Phe
               20
                                    25
105 Asn Pro Glu Val Asp Ala Ala Lys Ile Glu Thr Ala Ile Lys Thr Lys
                                40
108 Gly Val Asp Glu Gln Thr Ile Ile Asp Ile Leu Thr Arg Arg Ser Leu
111 Leu Lys Arg Ser Asp Ile Ala Phe Glu Tyr Glu Lys Arg Ala Lys Lys
                        70
114 Asp Leu Val Ser Ala Leu Lys Gly Ala Leu Ser Gly Ser Leu Glu His
                    85
                                        90
117 Leu Ile Leu Gly Leu Met Lys Ser Thr Pro Gln Tyr Asp Ala Phe Glu
                                   105
               100
120 Leu Lys Ala Met Lys Gly Leu Gly Thr Asp Glu Glu Ser Leu Ile Glu
                               120
   115
123 Met Val Cys Ser Arg Asn Lys Glu Glu Leu Ala Glu Ile Lys Lys Val
      130
                           135
126 Tyr Lys Glu Met Phe Lys Lys Asp Leu Glu Lys Asp Ile Ser Gly Asp
                       150
                                           155
129 Thr Ser Gly Asp Phe Ala Lys Leu Leu Ala Leu Ala Gln Gly Asn
                                       170
                   165
132 Arg Glu Glu Gln Ser Ser Val Val Asp Tyr Glu Lys Ile Asp Asn Asp
                                   185
135 Ala Arg Thr Leu Tyr Glu Thr Gly Val Arg Arg Lys Gly Thr Asp Val
                               200
138 Val Thr Trp Ile Ser Ile Phe Ser Glu Arg Ser Val Ser His Leu Gln
                           215
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RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,388 TIME: 11:02:58

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\05012006\J576388.raw

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141 Lys Val Phe Glu Arg Tyr Lys Arg Tyr Ser Pro Tyr Asp Leu Lys Glu
142 225
                       230
                                            235
144 Ser Ile Arg Met Glu Val Lys Gly Asp Leu Glu Lys Ser Phe Leu Thr
                    245
                                        250
147 Leu Val Glu Cys Leu Glu Asn Lys His Leu Tyr Phe Ala Ser Arg Leu
               260
                                    265
150 Asr Asp Ala Met Lys Gly Lys Ser Val Lys Asp Lys Ile Ile Thr Arg
    275
                                280
153 Ile Ile Val Ser Arg Cys Glu Val Asp Leu Met Lys Val Arg Ile Glu
                            295
                                                300
156 Phe Lys Arg Asn Phe Gly Arg Ser Leu His Gln Thr Ile Ser Glu His
157 305
                        310
                                            315
159 Thr Lys Gly Asp Tyr Gln Arg Ala Leu Leu Asn Leu Val Gly Gly Asp
160
                    325
                                        330
162 Asp
165 <210> SEQ ID NO: 3
166 <211> LENGTH: 181
167 <212> TYPE: PRT
168 <213> ORGANISM: Danio rerio
                                                 A Security of
170 <400> SEQUENCE: 3
171 Met Thr Ser Gly Tyr Lys Asp Gly Thr Pro Glu Glu Glu Tyr Ala His
                      5
                                         10
174 Ser Pro Phe Ile Arq Lys Gln Gly Asn Ile Tyr Lys Pro Asn Asn Lys
177 Glu Met Asp Asn Asp Ser Ile Asn Glu Lys Thr Leu Gln Asp Val His
            35
180 Thr Lys Glu Ile Asp Leu Val Asn Arg Asp Pro Lys His Leu Asn Asp
                             55
183 Asp Val Val Lys Val Asp Phe Glu Asp Val Ile Ala Glu Pro Ala Gly
                         70
                                             75
186 Thr Tyr Ser Phe Asp Gly Val Trp Lys Ala Ser Phe Thr Thr Phe Thr
189 Val Thr Lys Tyr Trp Cys Tyr Arg Leu Leu Thr Ala Leu Val Gly Ile
                100
                                    105
192 Pro Leu Ala Leu Val Trp Gly Ile Phe Phe Ala Ile Leu Ser Phe Ile
           115
                                120
                                                    125
195 His Ile Trp Ala Val Val Pro Cys Val Lys Ser Tyr Leu Ile Glu Ile
                            135
                                                140
198 His Cys Ile Ser Arg Val Tyr Ser Ile Cys Val His Thr Phe Cys Asp
                        150
                                            155
201 Pro Leu Phe Glu Ala Met Gly Lys Cys Phe Ser Asn Val Arg Val Thr
202
                    165
                                        170
204 Ala Thr Lys Val Val
205
                180
208 <210> SEQ ID NO: 4
209 <211> LENGTH: 178
210 <212> TYPE: PRT
211 <213> ORGANISM: Homo sapiens
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213 <400> SEQUENCE: 4

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,388 TIME: 11:02:58 Input Set : A:\pto.da.txt Output Set: N:\CRF4\05012006\J576388.raw 214 Met Ser Gly Gly Lys Tyr Val Asp Ser Glu Gly His Leu Tyr Thr Val 217 Pro Ile Arg Glu Gln Gly Asn Ile Tyr Lys Pro Asn Asn Lys Ala Met 25 220 Ala Asp Glu Leu Ser Glu Lys Gln Val Tyr Asp Ala His Thr Lys Glu 35 40 223 Ile Asp Leu Val Asn Arc Asp Pro Lys His Leu Asn Asp Asp Val Val 55 226 Lys Ile Asp Phe Glu Asp Val Ile Ala Glu Pro Glu Gly Thr His Ser 227 65 70 75 229 Phe Asp Gly Ile Trp Lys Ala Ser Phe Thr Thr Phe Thr Val Thr Lys 232 Tyr Trp Phe Tyr Arg Leu Leu Ser Ala Leu Phe Gly Ile Pro Met Ala 100 105 110 235 Leu Ile Trp Gly Ile Tyr Phe Ala Ile Leu Ser Phe Leu His Ile Trp 115 120 238 Ala Val Val Pro Cys Ile Lys Ser Phe Leu Ile Glu Ile Gln Cys Ile 130 135 140 241 Ser Arg Val Tyr Ser Ile Tyr Val His Thr Val Cys Asp Pro Leu Phe 15ů 155 242 145 244 Glu Ala Val Gly Lys Ile Phe Ser Asn Val Arg Ile Asn Leu Gln Lys 245 165 170 247 Glu Ile 250 <210> SEQ ID NO: 5 251 <211> LENGTH: 19 252 <212> TYPE: PRT 253 <213> ORGANISM: Danio rerio 255 <220> FEATURE: 256 <221> NAME/KEY: MOD RES 257 <222> LOCATION: (7) 258 <223> OTHER INFORMATION: unidentified amino acid 260 <220> FEATURE: 261 <221> NAME/KEY: MOD_RES 262 <222> LOCATION: (13) 263 <223> OTHER INFORMATION: unidentified amino acid 265 <220> FEATURE: 266 <221> NAME/KEY: MOD_RES 267 <222> LOCATION: (17) 268 <223> OTHER INFORMATION: unidentified amino acid 270 <400> SEQUENCE: 5 --> 271 Met Thr Ser Gly Tyr Lys Xaa Gly Thr Pro Glu Glu Xaa Tyr Ala His 272 1 10 W--> 274 Xaa Pro Glu 277 <210> SEQ ID NO: 6 278 <211> LENGTH: 16 279 <212> TYPE: PRT 280 <213> ORGANISM: Danio rerio

RAW SEQUENCE LISTING

282 <220> FEATURE:

283 <221> NAME/KEY: MOD RES

DATE: 05/01/2006

TIME: 11:02:58

```
Input Set : A:\pto.da.txt
                                                Output Set: N:\CRF4\05012006\J576388.raw
           284 <222> LOCATION: (2)
           285 <223> OTHER INFORMATION: unidentified amino acid
           287 <220> FEATURE:
           288 <221> NAME/KEY: MOD RES
           289 <222> LOCATION: (10)
           290 <223> OTHER INFORMATION: unidentified amino acid
           292 <220> FEATURE:
           293 <221> NAME/KEY: MOD RES
           294 <222> LOCATION: (14)
           295 <223> OTHER INFORMATION: unidentified amino acid
           297 <400> SEQUENCE: 6
W--> 298 Glu Xaa Asp Asn Asp Ser Ile Asn Glu Xaa Thr Leu Gln Xaa Val His
           299 1
           302 <210> SEQ ID NO: 7
           303 <211> LENGTH: 12
           304 <212> TYPE: PRT
           305 <213> ORGANISM: Danio rerio
           307 <220> FEATURE:
           308 <221> MAME/KEY: MOD_RES
                                                                                                                                         the state of the s
           309 <222> LOCATION: (9)
           310 <223> OTHER INFORMATION: unidentified amino acid
           312 <400> SEQUENCE: 7
W--> 313 Leu Thr Leu Ser Tyr Gly Gly Glu Xaa Glu Pro Lys
           314 1
           317 <210> SEO ID NO: 8
           318 <211> LENGTH: 14
           319 <212> TYPE: PRT
           320 <213> ORGANISM: Danio rerio
           322 <400> SEOUENCE: 8
           323 Arg Ser Leu Leu Lys Arg Ser Asp Ile Ala Phe Glu Tyr Glu
           324 1
                                                              5
           327 <210> SEQ ID NO: 9
           328 <211> LENGTH: 13
           329 <212> TYPE: PRT
           330 <213> ORGANISM: Danio rerio
           332 <220> FEATURE:
           333 <221> NAME/KEY: MOD RES
           334 <222> LOCATION: (4)
           335 <223> OTHER INFORMATION: unidentified amino acid
           337 <220> FEATURE:
           338 <221> NAME/KEY: MOD RES
           339 <222> LOCATION: (11)
           340 <223> OTHER INFORMATION: unidentified amino acid
           342 <400> SEQUENCE: 9
W--> 343 Val Phe Glu Xaa Tyr Lys Arg Tyr Ser Pro Xaa Asp Leu
           344 1
                                                              5
           347 <210> SEQ ID NO: 10
           348 <211> LENGTH: 25
           349 <212> TYPE: DNA
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/576,388

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/01/2006 PATENT APPLICATION: US/10/576,388 TIME: 11:02:59

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\05012006\J576388.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 7,13,17 Seq#:6: Xaa Pos. 2,10,14 Seq#:7; Xaa Pos. 9 Seq#:9; Xaa Pos. 4,11 VERIFICATION SUMMARY

DATE: 05/01/2006 TIME: 11:02:59

PATENT APPLICATION: US/10/576,388

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\05012006\J576388.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0